

1 / 16

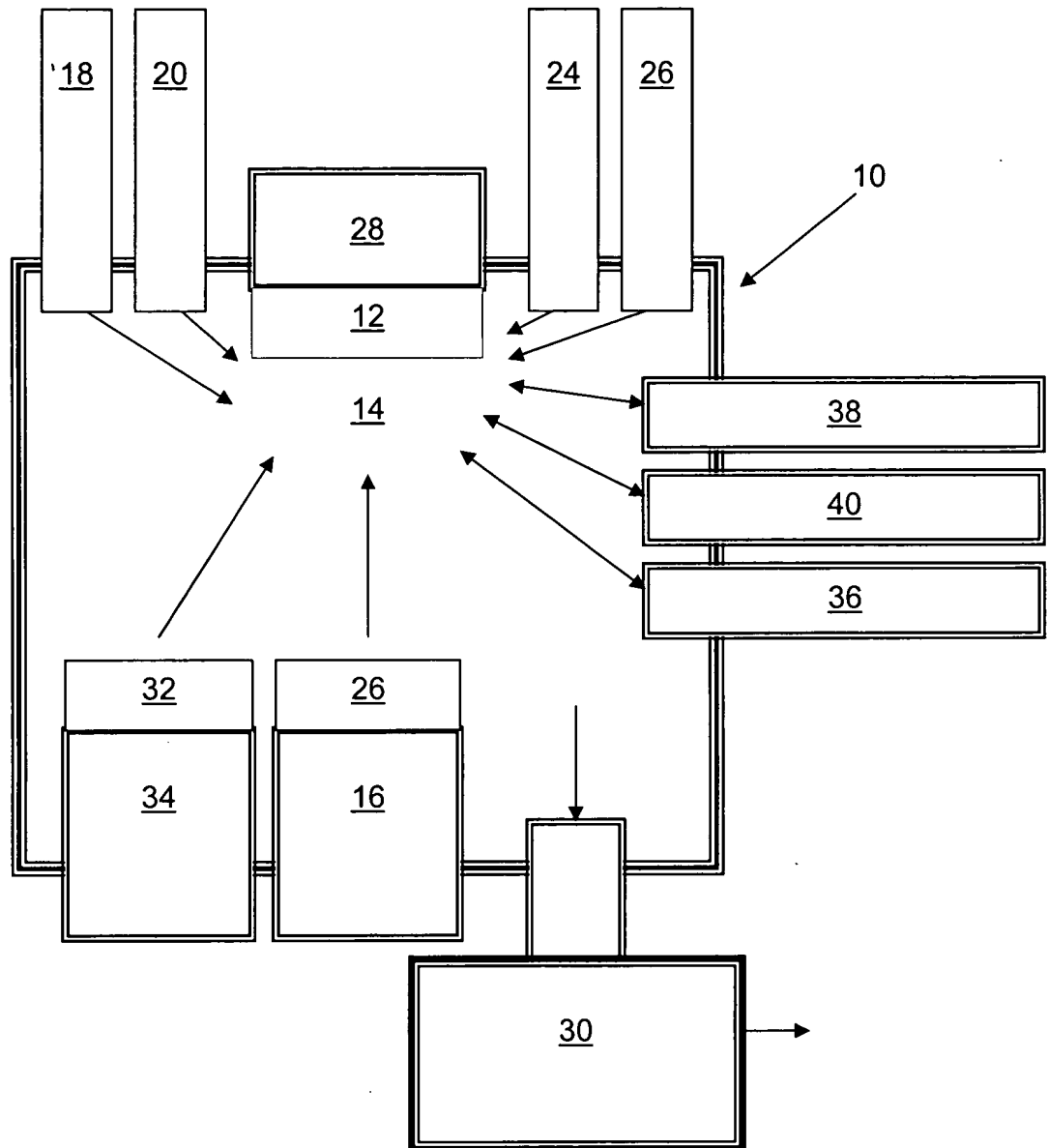


Fig. 1

2 / 16

ZnO thickness \sim 500 nm/Si

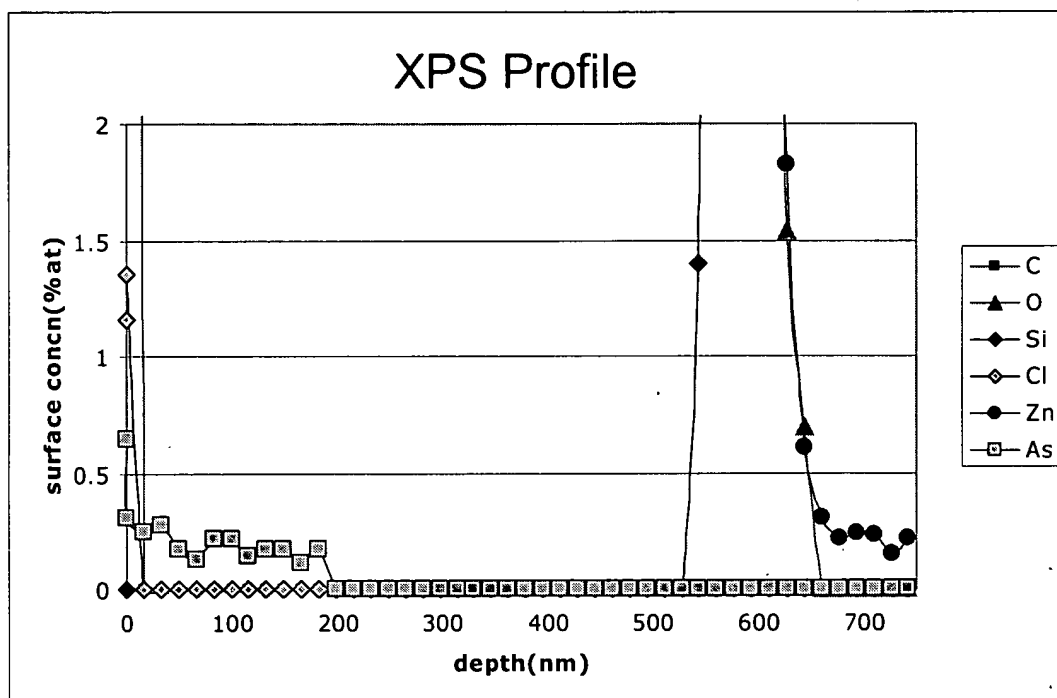


Fig. 2

P-type ZnO: Photoluminescent Comparisons

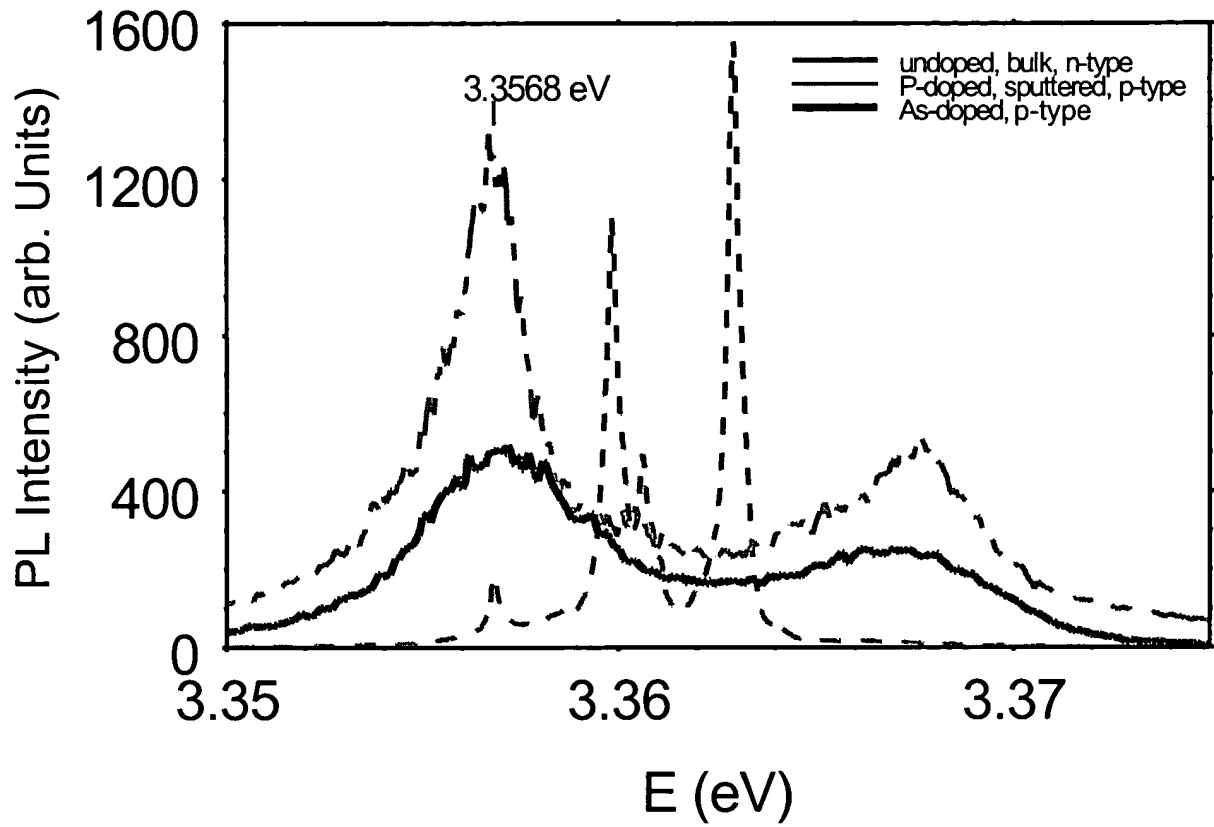


Fig. 3

4 / 16

Resistance & Mobility of As doped ZnO

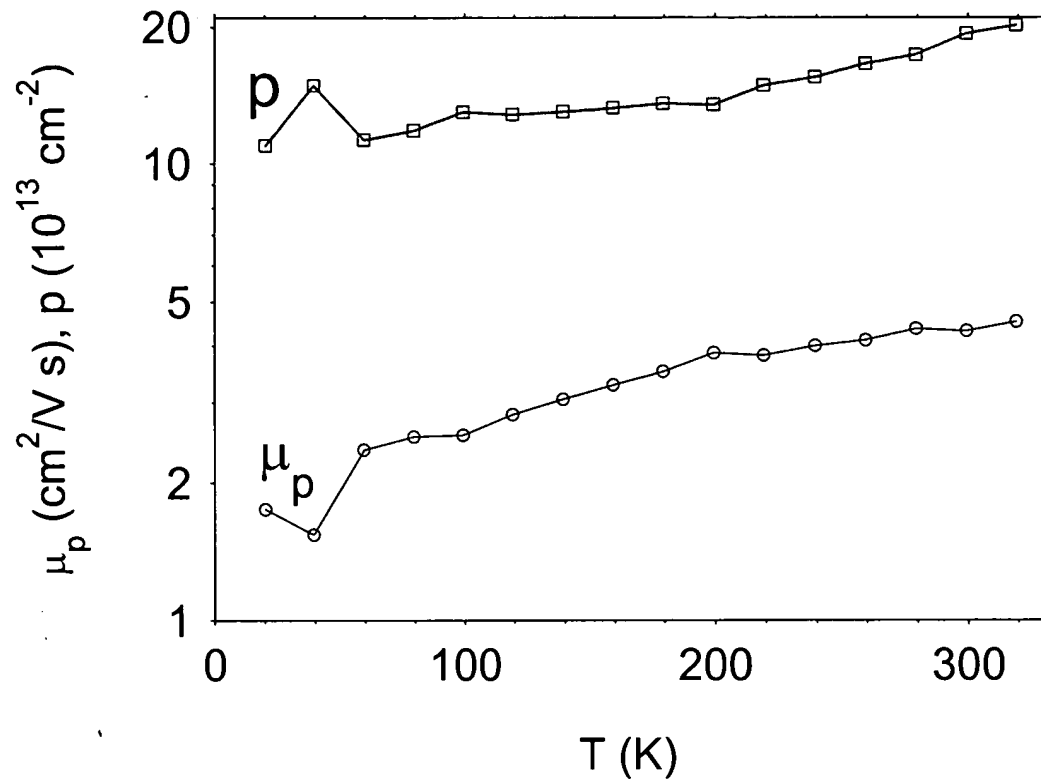


Fig. 4

5 / 16

SIMS Data Showing Concentration vs. Depth

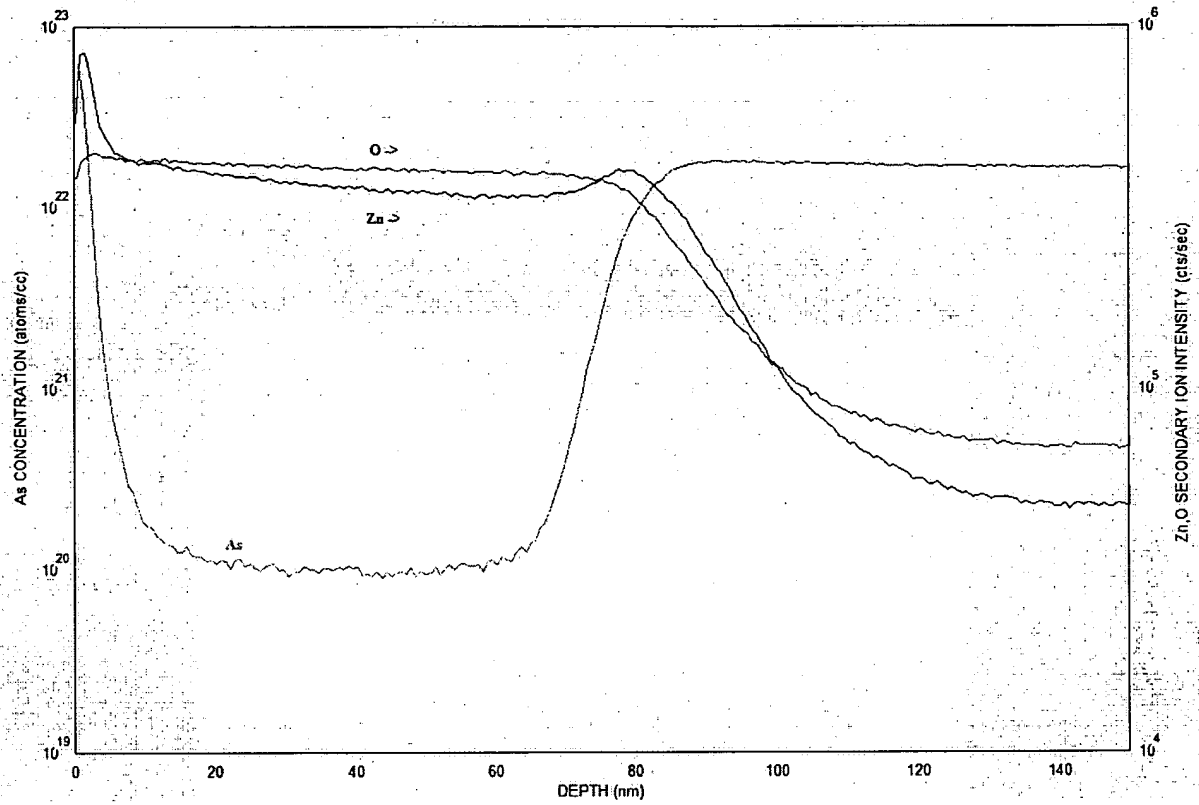


Fig. 5

6 / 16

Polycrystalline Zinc Oxide XRD Pattern

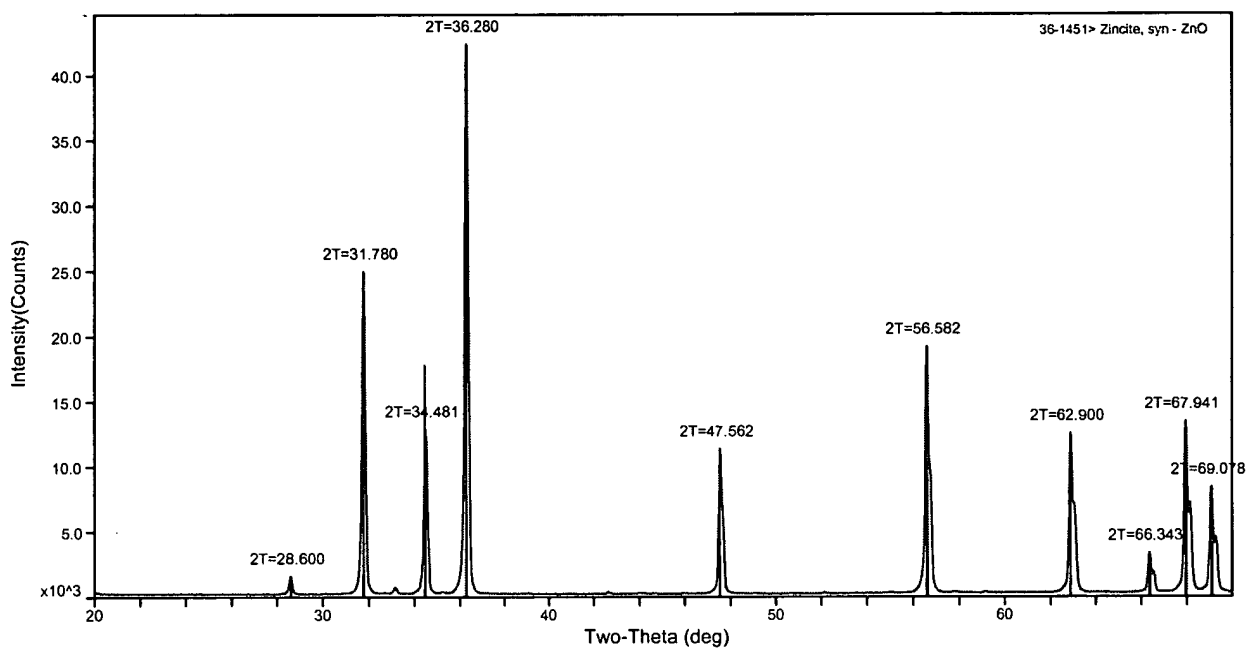


Fig. 6

7 / 16

Zinc Oxide XRD Pattern
Showing Single Crystal (002) Plane

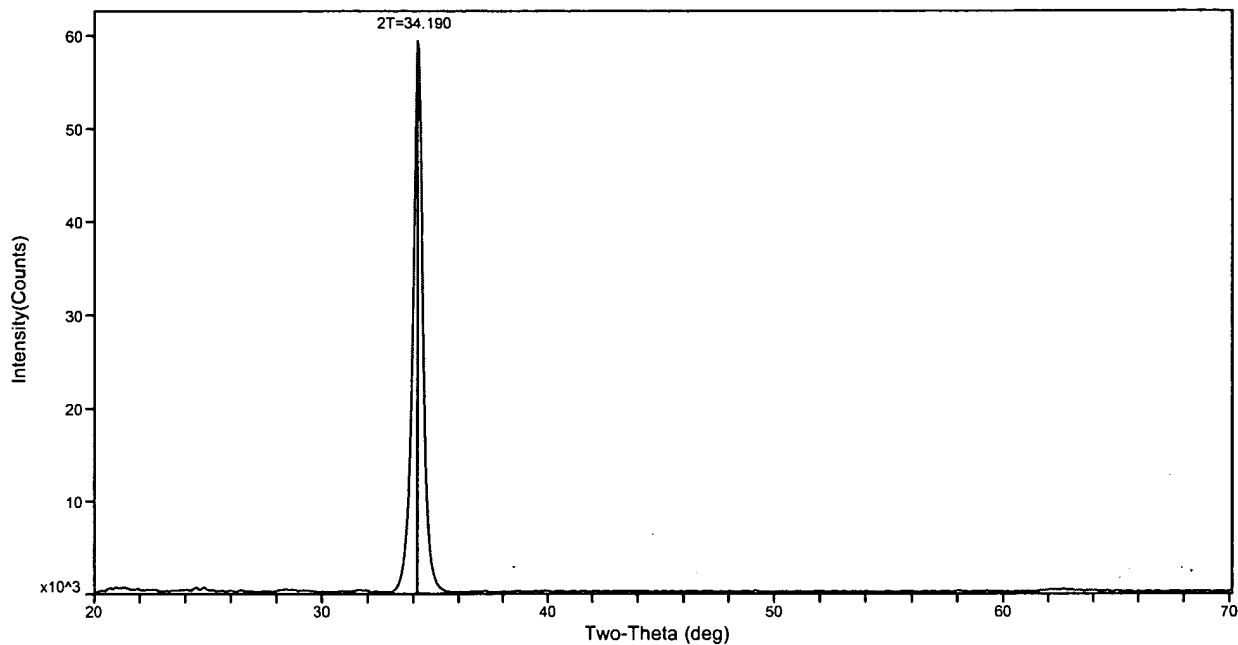


Fig. 7

8 / 16

Antimony Concentration In Zinc Oxide
Atoms/cm³ versus Depth Into The Surface

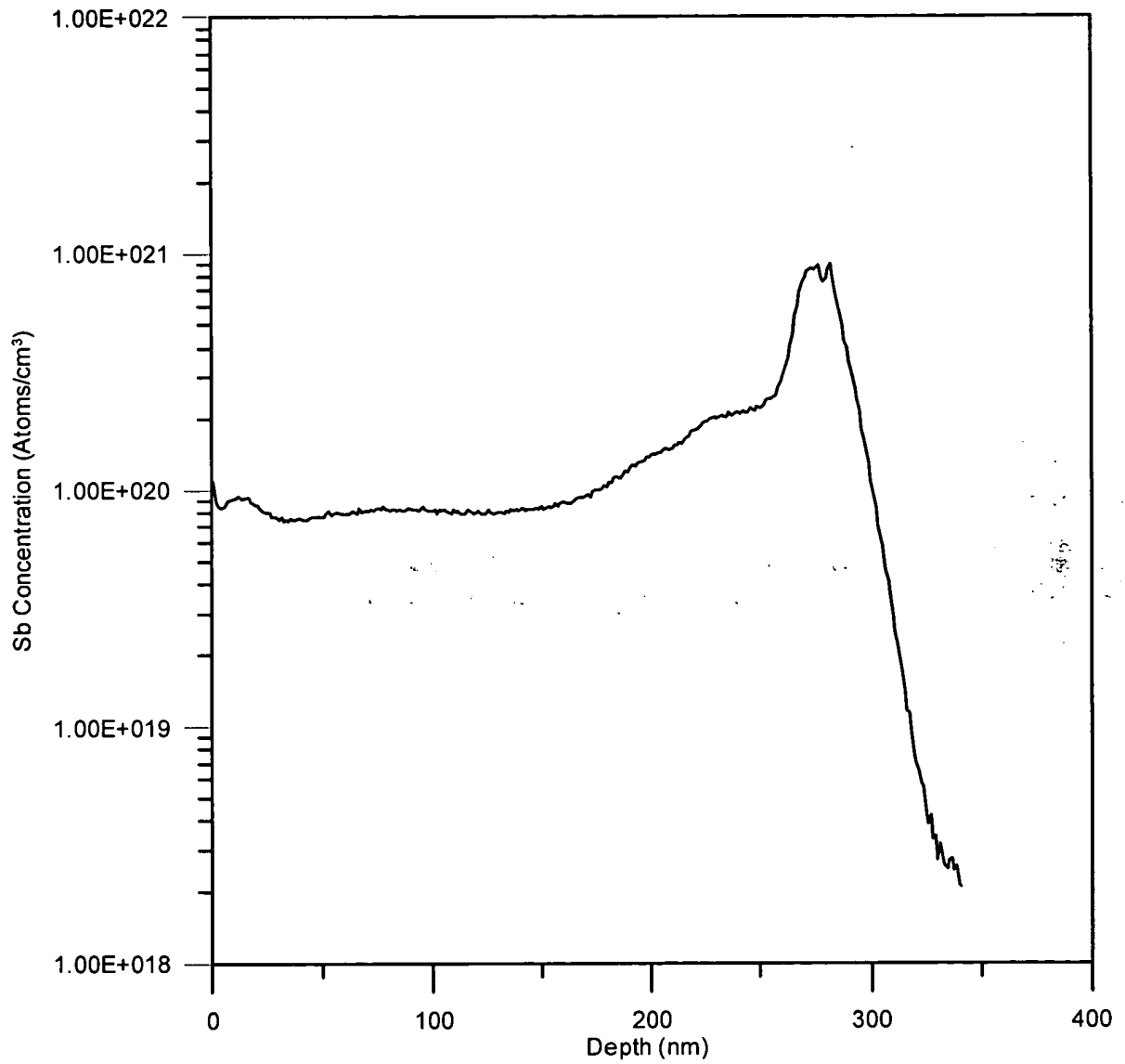


Fig. 8

9 / 16

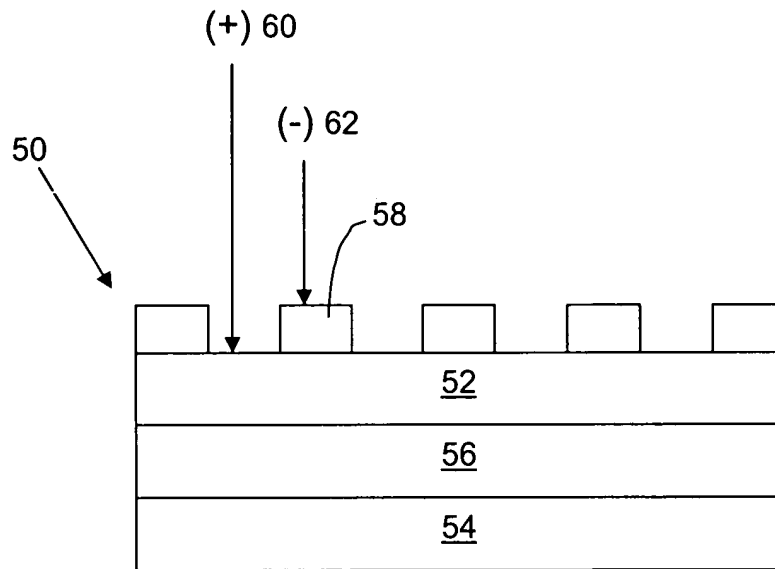


Fig. 9

10 / 16

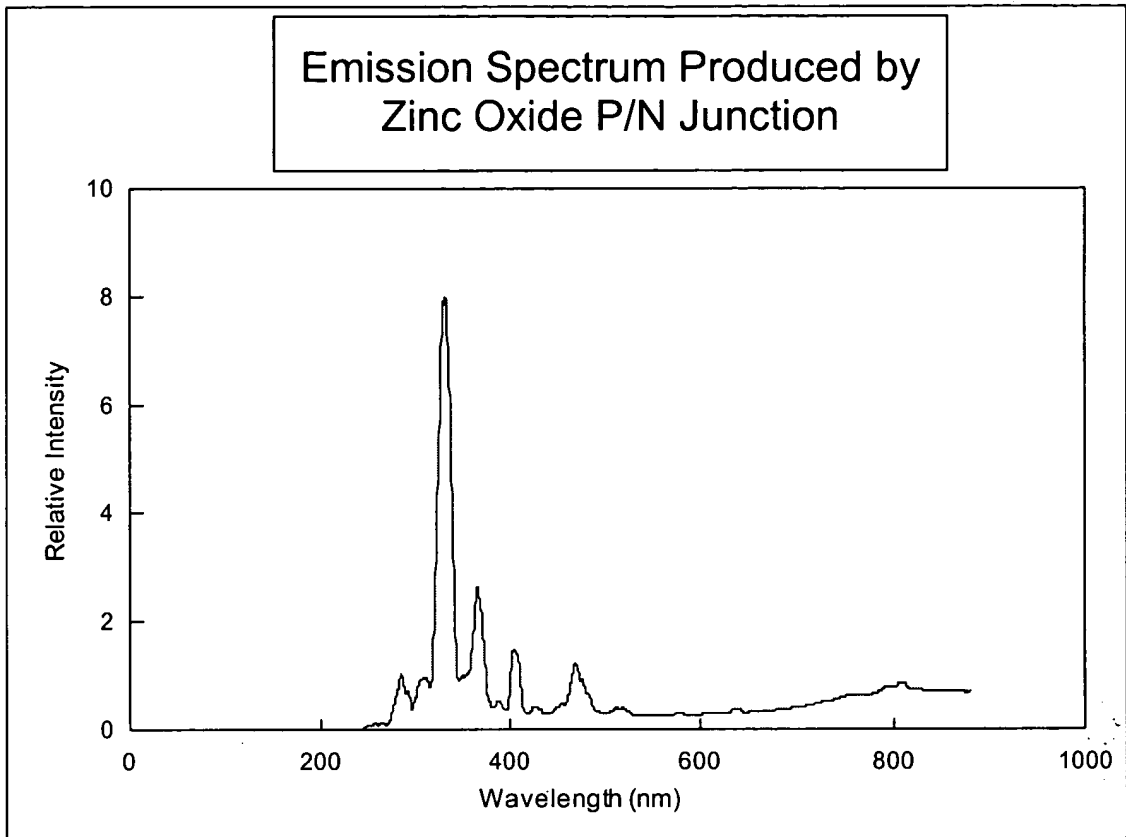


Fig. 10

11 / 16

Current - Voltage Plot of a Zinc Oxide P/N Junction

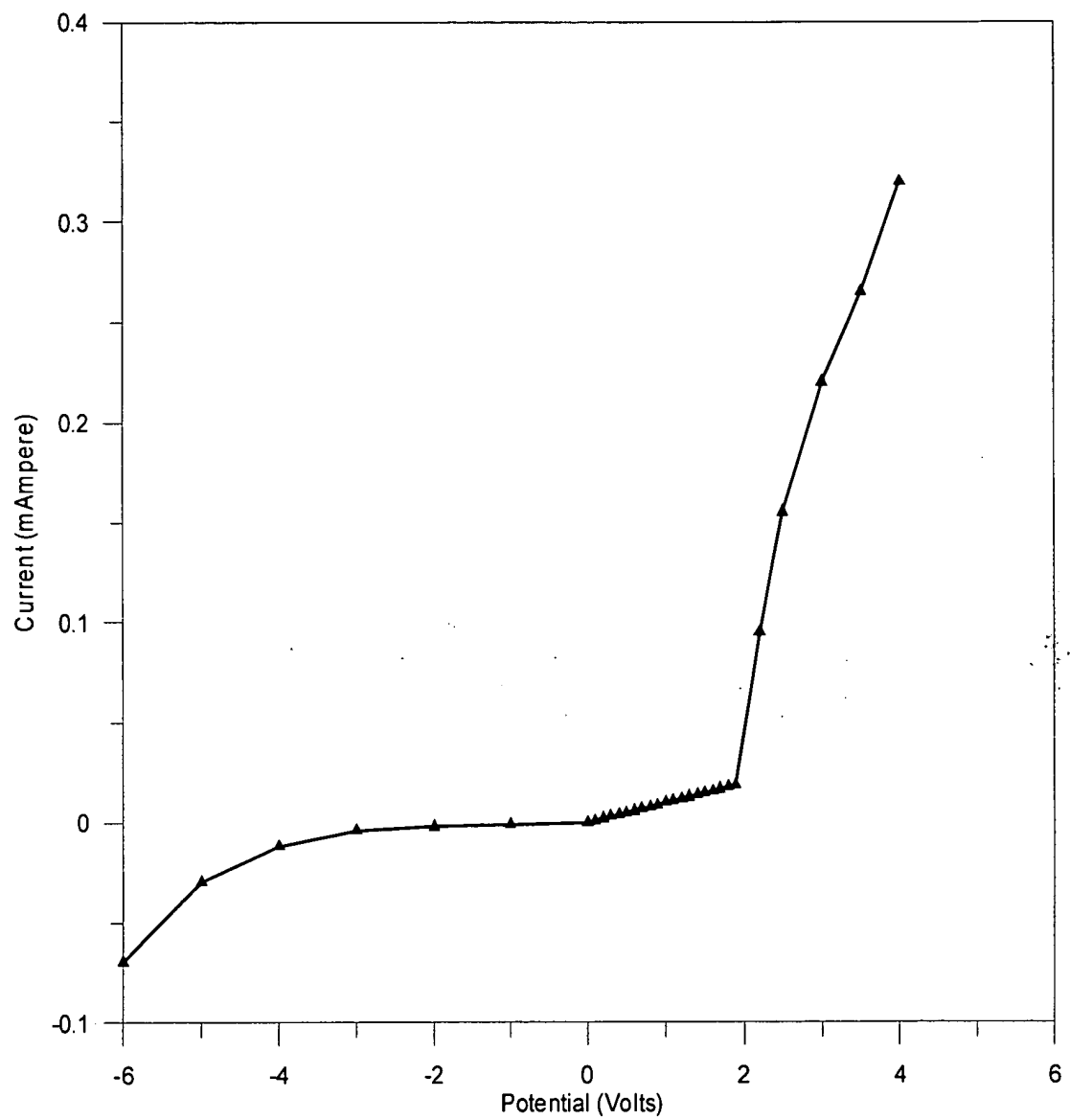


Fig. 11

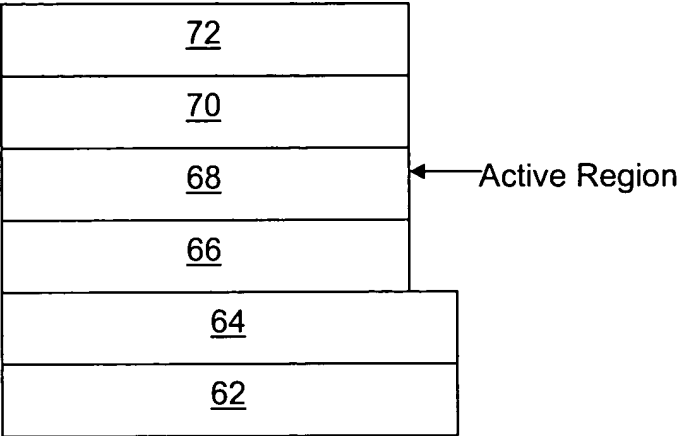


Fig. 12

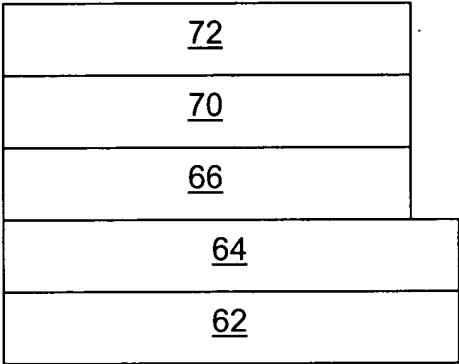


Fig. 13

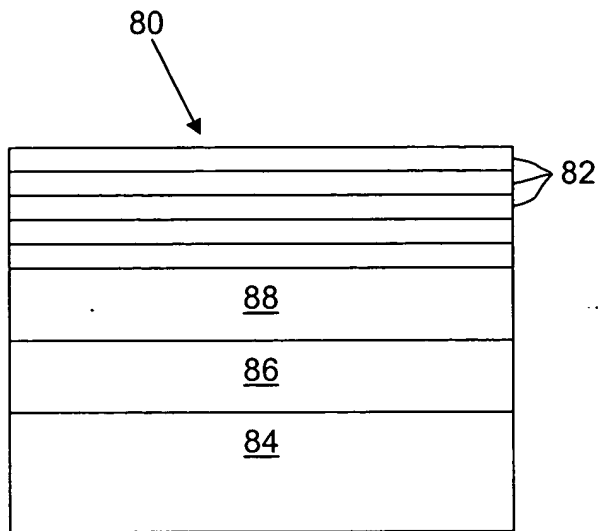


Fig. 14A

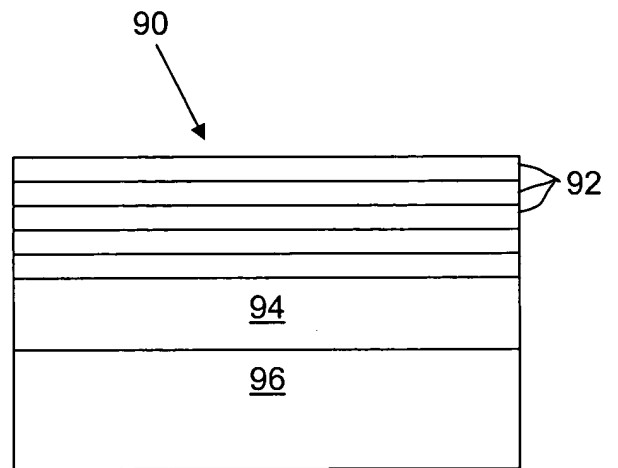


Fig. 14B

14 / 16

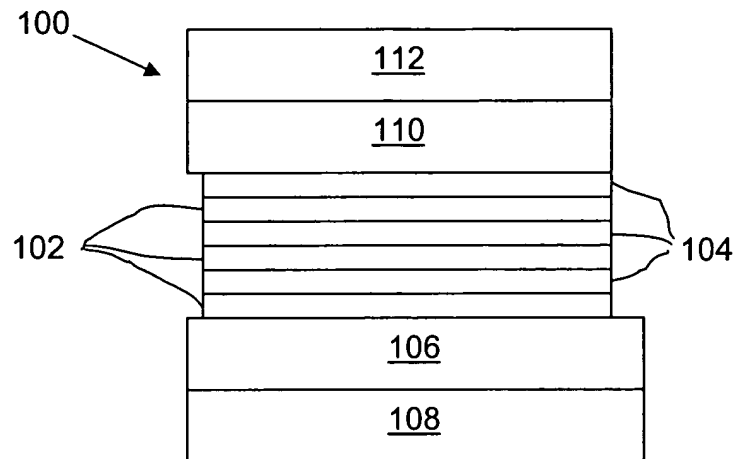


Fig. 15A

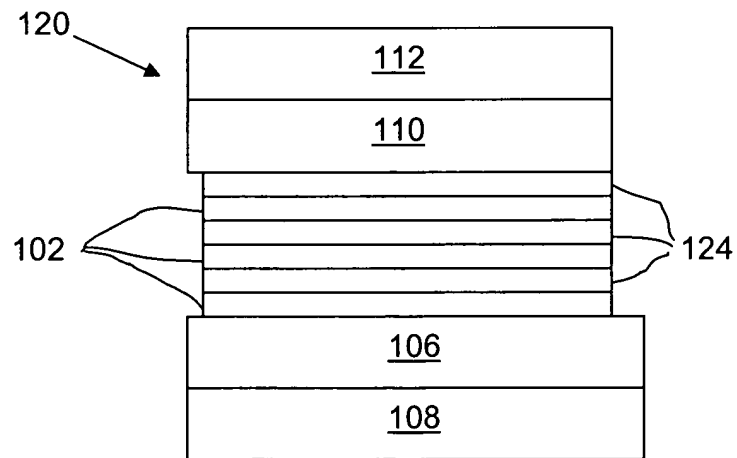


Fig. 15B

15 / 16

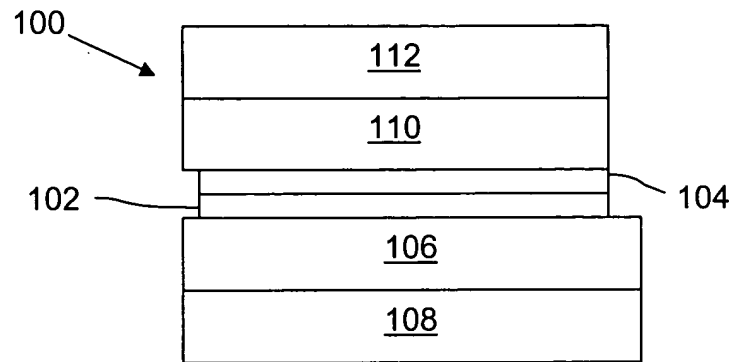


Fig. 16A

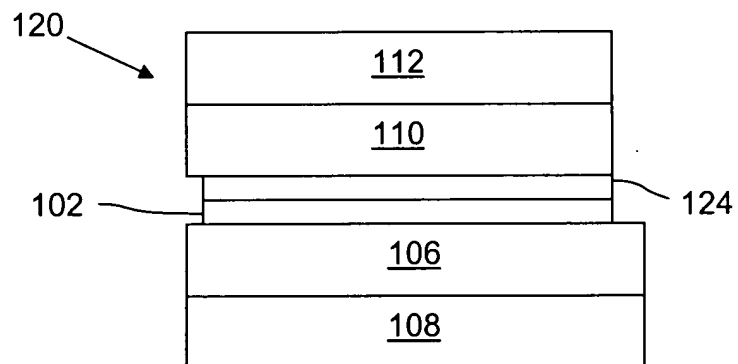


Fig. 16B

16 / 16

Zinc - Oxygen - Arsenic Ternary Diagram

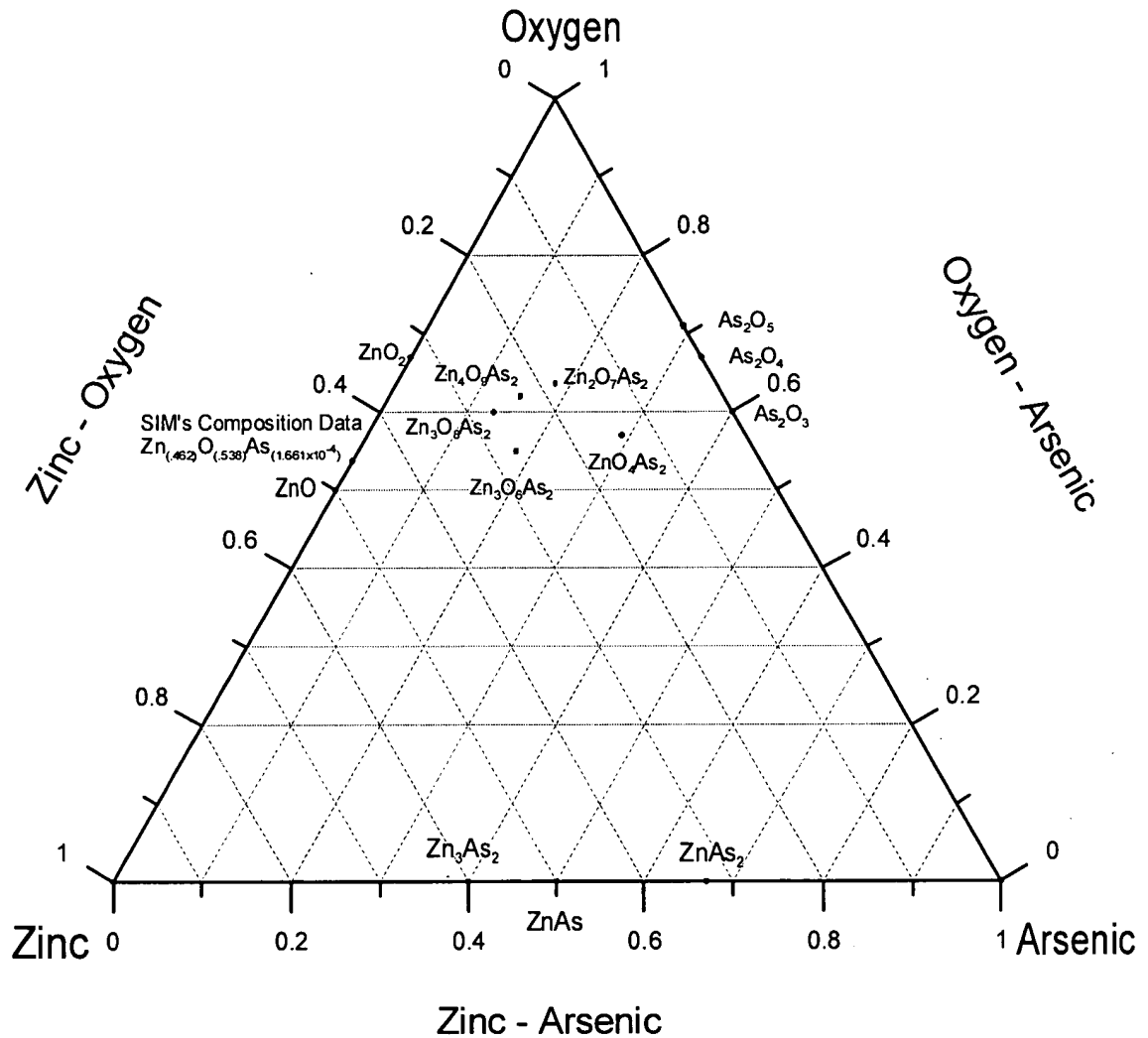


Fig. 17